

January 29, 2013

Sent via email

David Duster U.S. Environmental Protection Agency Region 8, 8ENF-T 999 18th Street, Suite 300 Denver, Colorado 80202-2466

RE: Apex Inspection Reports – August 2012 thru December 2012

Dear David:

Attached are inspection reports for August 2012 thru December 2012.

Paul L. Glader

Sincerely,

Manager Environmental Services

Encl

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date: 8-8-17/					
Inspector: D. Jewas					
Cover System Component	Potential Problem		Allowable Limits	Limits Potentially Exceeded	
Site Perimeter	Erosion or	Fencing Issues	NA	NA	
	Subsidence		Minor: ponding < 1" some gullying / erosion Significant: see Table 2	Yes _* No 🗾	
			Significant. See Table 2	Yes* No	
	Embankment Slope Stability		excessive movement or surface cracks > than 1"	Yes _* No 🖊	
	Gullying	on top	depth > 1"	Vac * Na	
Cover System (outslopes, top, rock)		at embankment crest or on outslope	depth > 2"	Yes _ * No _ 🗸	
		w/in normal flow channel in diversion channel	no gullying allowed .	Yes* No _*_	
		w/in diversions at toe of impoundment outslope	no gullying allowed	Yes _* No _/	
		in diversion channel at any other location	NA	NA	
	Erosion Protection Stability		rock subsiding or missing	Yes * No 🏏	
	Seepage		no colored seepage allowed (red, blue, yellow w/crystallization)	Yes * No	
Runoff Control System	Diversion Channel		rock in place, channel not moving, fence stable	Yes∜ * No	
	Diversion Swales		rock in place, no silting in or head cutting	Yes 🛂 No	
	Excessive silt build up at fence lines in diversion channel		allowed if not effecting cover system	Yes _* No _*	

^{*} Mark all areas of concern or requiring repairs on attached site map.

	Inspection Date: 8-8-13
	Inspector: D. Trumas.
	Visible Outlying Areas
Observed Condition:	No New problem
Observed Damage:	None
	May require repair: Yes* No
	Property Boundary Fence and Gate (walk fence line)
Observed Condition:	Fence & Gorto in good Conditioni
Observed Damage:	No peshkar
Potential Corrective Actions:	ルがいー May require repair: Yes * No ✓
	All Upgradient Areas (areas that drain onto property)
Observed Condition:	No Change
Observed Damage: /	von 4
	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date: 8-8-17	
	Outslopes	
Observed Performance:	Rock Cover Subsidence: Yes No	May require repair: Yes* No
	Excessive Slope Movement (failure): Yes No	May require repair: Yes* No
	Gully Development: Yes No	May require repair: Yes* No/
	Observable Leachate (colored): Yes No	May require repair: Yes* No/
	Excessive Siltation (at slope toe): Yes No	May require repair: Yes* No
Observed Damage: N	16rte	
Potential Corrective / Actions:	Vene	
	Top (top surface soils)	
Observed Performance:	Cracking (>1" width): Yes No	May require repair: Yes* No
	Settlement / Evidence of Ponding: Yes No	May require repair: Yes* No
	Erosion / Gullying: Yes No	May require repair: Yes* No
Observed Damage: /	Von e	
Potential Corrective Actions:	NON -	•
	Erosion Protection Layer (rock)	
Observed Performance:	Rock Staying in Place: Yes Vo	May require repair: Yes* No/
	Rock Subsiding: Yes No	May require repair: Yes* No/
	Missing Rock: Yes No 🗸	May require repair: Yes* No
Observed Damage: /	NONE	
Potential Corrective Actions:	NONE	

^{*} ινιατκ all areas or concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Date:	3-8-12		
Inspector:	D-Trums		
		Diversion Channel	
Observed Performance;	Erosion Protection in place:	Yes No _	May require repair: Yes* No/
Samuel and a service of the service	Normal Flow Channel in place:	Yes No	May require repair: Yes* No
	Encroaching on Site Fencing:	Yes No 1	May require repair: Yes* No
Observed Damage: j	Vole	•	
Potential Corrective Actions:	None	,	
		Diversion Swales	
Observed Performance:	Erosion Protection in place:	Yes No	May require repair: Yes* No
	Flow Channel Silting In:	Yes No V	May require repair: Yes* No/
	Head Cutting:	Yes No	May require repair: Yes* No
Observed Damage:	None	,	
Potential Corrective Actions:	None		

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date: 9-33-12				
Inspector:	D-7	Zan		
Cover System Component	Potential Problem		Allowable Limits	Limits Potentially Exceeded
Site Perimeter	Erosion or	Fencing Issues	NA	NA
	Subsidence		Minor: ponding < 1" some gullying / erosion	Yes 🛂 No
			Significant: see Table 2	Yes* No
	Embankment Slope Stability		excessive movement or surface cracks > than 1"	Yes _* No
		on top	depth > 1"	V00 * N0
Cover System (outslopes, top,		at embankment crest or on outslope	depth > 2"	Yes* No
rock)	Gullying	w/in normal flow channel in diversion channel	no gullying allowed	Yes _* No 🛂
		w/in diversions at toe of impoundment outslope	no gullying allowed	Yes _* No
		in diversion channel at any other location	NA	NA
	Erosion Protection Stability		rock subsiding or missing	Yes * No 🥯
	Seepage		no colored seepage allowed (red, blue, yellow w/crystallization)	Yes * No 🗸
	Diversion Channel		rock in place, channel not moving, fence stable	Yes 🗸 No
Runoff Control System	Diversion	Swales	rock in place, no silting in or head cutting	Yes 🗸 No
	Excessive silt build up at fence lines in diversion channel		allowed if not effecting cover system	Yes _* No _

^{*} Mark all areas of concern or requiring repairs on attached site map.

	Inspection Date: 9-3-3-72
	Inspector: D. Jaune
The state of the s	Visible Outlying Areas
Observed Condition:	AN is well
Observed Damage:	NONE
	May require repair: Yes* No
	Property Boundary Fence and Gate (walk fence line)
Observed Condition:	Fare à Brée de Rine
Observed Damage:	NONE
Potential Corrective Actions:	Non-
THE PROPERTY OF THE PROPERTY O	May require repair: Yes* No
	All Upgradient Areas (areas that drain onto property)
Observed Condition:	No Chenza
Observed Damage:	por c
Militarouthenecoro	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date: 9-23-12	
	Outslopes	
Observed Performance:	Rock Cover Subsidence: Yes No	May require repair: Yes* No
	Excessive Slope Movement (failure): Yes No	May require repair; Yes* No
	Gully Development: Yes No	May require repair: Yes* No
	Observable Leachate (colored): Yes No	May require repair: Yes* No
	Excessive Siltation (at slope toe): Yes No	May require repair: Yes* No/
Observed Damage:	No Change	
Potential Corrective Actions:	None	
	Top (top surface soils)	
Observed Performance:	Cracking (>1" width): Yes No	May require repair: Yes* No
	Settlement / Evidence of Ponding: Yes No	May require repair: Yes* No
	Erosion / Gullying: Yes No	May require repair: Yes* No
Observed Damage: 🔥	so Change	
Potential Corrective Actions:	NON-	
	Erosion Protection Layer (rock)	
Observed Performance:	Rock Staying in Place: Yes No	May require repair: Yes* No
	Rock Subsiding: Yes No	May require repair: Yes* No
	Missing Rock: Yes No	May require repair: Yes* No
Observed Damage:	None	·
Potential Corrective Actions:	Mw -	

iviark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Date: 9-25-14		
Inspector: D' pu		
	Diversion Char	inel 를 끌린된 하프랑보니라는 그 로봇된 스트를 하는데
Observed Performance: Erosion Protection in place:	Yes No	May require repair: Yes* No
Normal Flow Channel in place.	: Yes No	May require repair: Yes* No
Encroaching on Site Fencing:	Yes No	May require repair: Yes* No
Observed Nunt		
Potential Corrective Nonis- Actions:		
	Diversion Swa	les
Observed Performance: Erosion Protection in place:	Yes No _	May require repair: Yes* No
Flow Channel Silting In:	Yes No	May require repair: Yes* No*
Head Cutting:	Yes No No	May require repair: Yes* No
Observed No Charge	·	
Potential Corrective A ~ . Actions:		

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date: 10/13/12				
Inspector: D. Trum				
Cover System Component	Potential Problem		Allowable Limits	Limits Potentially Exceeded
Site Perimeter	Erosion or	Fencing Issues	NA	NA
	Subsidence		Minor: ponding < 1" some gullying / erosion	Yes 🛂 No
·			Significant: see Table 2	Yes _* No 🗸
	Embankment Slope Stability		excessive movement or surface cracks > than 1"	Yes _* No
		on top	depth > 1"	Vac * Na 2/
Cover System (outslopes, top,		at embankment crest or on outslope	depth > 2"	Yes _* No
rock)	Gullying	w/in normal flow channel in diversion channel	no gullying allowed	Yes _* No 1/
	! 	w/in diversions at toe of impoundment outslope	no gullying allowed	Yes _* No _
		in diversion channel at any other location	NA	NA
	Erosion Protection Stability		rock subsiding or missing	Yes * No 🗸
	Seepage		no colored seepage allowed (red, blue, yellow w/crystallization)	Yes * No
	Diversion	Channel	rock in place, channel not moving, fence stable	Yes * No
Runoff Control System	Diversion	Swales	rock in place, no silting in or head cutting	Yes 👉 No
	Excessive silt build up at fence lines in diversion channel		allowed if not effecting cover system	Yes _* No _/

^{*} Mark all areas of concern or requiring repairs on attached site map.

	Inspection Date: 10/13/14-
	Inspector: Difference
	Visible Outlying Areas
Observed ~ Condition:	Things looked Fine
Observed Damage:	None
	May require repair: Yes* No _*_
	Property Boundary Fence and Gate (walk fence line)
Observed Condition:	No New Feebkorg
Observed Damage:	New
Potential Corrective Actions:	NONE
	May require repair; Yes* No*
	All Upgradient Areas (areas that drain onto property)
Observed Condition:	No Charge
Observed Damage:	NOW
	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date: 16/13/12	
	Outslopes	
Observed Performance:	Rock Cover Subsidence: Yes No	May require repair: Yes* No
	Excessive Slope Movement (failure): Yes No	May require repair: Yes* No*
	Gully Development: Yes No	May require repair: Yes* No
	Observable Leachate (colored): Yes No	May require repair: Yes* No
	Excessive Siltation (at slope toe): Yes No	May require repair: Yes* No
Observed Damage:	IONE	
Potential Corrective Actions:	VONE	
	Top (top surface soils)	
Observed Performance:	Cracking (>1" width): Yes No	May require repair: Yes* No
	Settlement / Evidence of Ponding: Yes No	May require repair: Yes* No
	Erosion / Gullying: Yes No	May require repair: Yes* No
Observed Damage: ^	10 Mila	
Potential Corrective A Actions:	SONIC	
	Erosion Protection Layer (rock)	
Observed Performance:	Rock Staying in Place: Yes Vo No	May require repair: Yes* No
	Rock Subsiding: Yes No	May require repair: Yes* No
	Missing Rock: Yes No	May require repair: Yes* No
Observed Damage: W	the	
Potential Corrective Actions:	ione.	

numerical areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Date:/0/ Inspector:_/	13/12 D-Par		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	Yes No	May require repair: Yes* No
	Normal Flow Channel in place:	Yes No	May require repair: Yes* No
	Encroaching on Site Fencing:	Yes No	May require repair: Yes* No
Observed Damage:	10 Charge		
J			
Potential Corrective Actions:	tely None		
		Diversion Swales	
Observed Performance:	Erosion Protection in place:	Yes No _	May require repair: Yes* No
	Flow Channel Silting In:	Yes No	May require repair: Yes* No
	Head Cutting:	Yes No <u>~</u>	May require repair: Yes* No
Observed Damage: /	10 Change		
Potential Corrective Actions:	Morla		

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date://_	23/12					
Inspector: 5	Trumo	<u></u>				
Cover System Component	Po	tential Problem	Allowable Limits Limits Potentially Exceeded			
Site Perimeter	Erosion or	Fencing Issues	NA	NA		
	Subsidence		Minor: ponding < 1" some gullying / erosion	Yes ** No		
			Significant: see Table 2	Yes _* No <u>*</u>		
	Embankment Slope Stability		excessive movement or surface cracks > than 1"	Yes* No		
		on top	depth > 1"	Vac * Na		
Cover System (outslopes, top,		at embankment crest or on outslope	depth > 2"	Yes _ * No		
rock)	Gullying	w/in normal flow channel in diversion channel	no gullying allowed	Yes _* No _/		
		w/in diversions at toe of impoundment outslone	no guliying allowed	Yes _* No		
		in diversion channel at any other location	NA .	NA		
4 COLUMN 1 C	Erosion Protection Stability		rock subsiding or missing	Yes * No		
	Seepage		no colored seepage allowed (red, blue, yellow w/crystallization)	Yes * No		
	Diversion Channel		rock in place, channel not moving, fence stable	Yes ** No		
Runoff Control System	Diversion	Swales	rock in place, no silting in or head cutting	Yes 🗸 * No		
	Excessive silt build up at fence lines in diversion channel		allowed if not effecting cover system	Yes _* No _/		

^{*} Mark all areas of concern or requiring repairs on attached site map.

	Inspection Date: 11/22/19————————————————————————————————
	Inspector: J. Jaunas
	Visible Outlying Areas
Observed Condition:	No problem.
Observed Damage:	None
	May require repair: Yes* No
	Property Boundary Fence and Gate (walk fence line)
Observed Condition:	No Change
Observed Damage:	None
Potential Corrective Actions:	None
	May require repair: Yes* No *
	All Upgradient Areas (areas that drain onto property)
Observed Condition:	No Charge
Observed Damage:	NONE
	May require repair: Yes* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date: 11/23/14	
	Outslopes	
Observed Performance:	Rock Cover Subsidence: Yes No	May require repair: Yes* No
	Excessive Slope Movement (failure): Yes No	May require repair: Yes* No
	Gully Development: Yes No	May require repair: Yes* No
	Observable Leachate (colored): Yes No/	May require repair: Yes* No
	Excessive Siltation (at slope toe): Yes No	May require repair: Yes* No
Observed Damage:	10 Chonf-	
Potential Corrective Actions:	Nom-	
	Top (top surface soils)	
Observed Performance:	Cracking (>1" width): Yes No	May require repair: Yes* No
	Settlement / Evidence of Ponding: Yes No	May require repair: Yes* No
	Erosion / Gullying: Yes No	May require repair: Yes* No
Observed Damage: Λ	(objection)	
Potential Corrective Actions:	None	
	Erosion Protection Layer (rock)	
Observed Performance:	Rock Staying in Place: Yes No	May require repair: Yes* No
	Rock Subsiding: Yes No	May require repair: Yes* No
	Missing Rock: Yes No /	May require repair: Yes* No
Observed Damage:	Nove -	
Potential Corrective Actions:	NONE_	

т магк ан areas от concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Date: /// Inspector:/	25/1- D= prin		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	Yes No	May require repair: Yes* No
	Normal Flow Channel in place:	Yes No	May require repair: Yes* No 🛩
	Encroaching on Site Fencing:	Yes No	May require repair: Yes* No
Observed No Damage:	problem		
Potential Corrective Actions:	m		
		Diversion Swales	
Observed Performance:	Erosion Protection in place:	Yes / No _	May require repair: Yes* No*
	Flow Channel Silting In:	Yes No ⁻	May require repair: Yes* No
	Head Cutting:	Yes No	May require repair: Yes* No
Observed Damage: Å	la bisplan.		
Potential Corrective <i>j</i> Actions:	Sople_		

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Date: المراجعة	122/1	12-					
Inspector:	1 12	<u>il.</u>					
Cover System Component Potential Problem			Allowable Limits Limits Potentially Exceeded				
Site Perimeter	Erosion or	Fencing Issues	NA ·	NA			
	Subsidence		Minor: ponding < 1" some gullying / erosion	Yes 🛂 No			
			Significant: see Table 2	Yes _* No			
	Embankme	ent Slope Stability	excessive movement or surface cracks > than 1"	Yes _* No 1			
		on top	depth > 1"	Vas * Na			
Cover System (outslopes, top,		at embankment crest or on outslope	depth > 2"	Yes* No			
rock)	Gullying	w/in normal flow channel in diversion channel	no gullying allowed	Yes _* No _ <i>v</i>			
:		w/in diversions at toe of impoundment outslope	no guilying allowed	Yes _* No _*			
		in diversion channel at any other location	NA	NA			
	Erosion Pi	rotection Stability	rock subsiding or missing	Yes * No ibanan			
	Seepage		no colored seepage allowed (red, blue, yellow w/ crystallization)	Yes * No 🎷			
	Diversion (Channel	rock in place, channel not moving, fence stable	Yes ** No			
Runoff Control System	Diversion (Swales	rock in place, no silting in or head cutting	Yes 🛂 * No			
	Excessive lines in div	silt build up at fence version channel	allowed if not effecting cover system	Yes _* No _/			

^{*} Mark all areas of concern or requiring repairs on attached site map.

		Inspectio	n Date:	12/32	112					
		lns	spector:	2 -	Tann	The state of the s				
				Albert British	Outlying	Areas				
Observed Condition:	Mo	New	piebli	cari.						
Observed Damage:	No	<i>j</i>								
							I	May require i	epair: Yes	* No
		Pi	roperty Bou	ındary F	ence and	Gate (wal	k fence lir	ie)		
Observed Condition:	fea	£ * #.	gate	AV.E.	j ve	zml	Zego	~~		
Observed Damage:	Neves	ter-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						# ************************************	
Potential Corrective Actions:	None									
								May require	repair: Yes	* No 🖳
		Α	II Upgradieı	nt Areas	(areas th	at drain on	ito proper	ly)		
Observed Condition:	No C	horze								
Observed Damage:	None									
	·							May require	repair: Yes	* No

^{*} Mark all areas of concern or requiring repairs on attached site map.

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

	Inspection Date	: 13/32	2/12 Defen	
			Outslopes	
Observed Performance:	Rock Cover Subsidence:		Yes No	May require repair: Yes* No
	Excessive Slope Moveme	ent (failure):	Yes No 2000	May require repair: Yes* No
	Gully Development:	Υ	Yes _ No _	May require repair: Yes* No
	Observable Leachate (co	lored): Y	Yes _ No _	May require repair: Yes* No*
	Excessive Siltation (at slo	ope toe): Y	Yes No /	May require repair: Yes* No _>
Observed Damage: /\/	w charge			
Potential Corrective Actions:	None			
		T	op (top surface soils	5)
Observed Performance:	Cracking (>1" width):	Yes	s No	May require repair: Yes* No
	Settlement / Evidence of	Ponding: Yes	s No	May require repair: Yes* No 些
<u></u>	Erosion / Gullying:	Yes	s No	May require repair: Yes* No
Observed Damage: M	o problem			
Potential Corrective Actions:	None			
		Erosio	on Protection Layer	(rock)
Observed Performance:	Rock Staying in Place:	Yes 🛂 No	o	May require repair: Yes* No*
	Rock Subsiding:	Yes No	O Beernani	May require repair: Yes* No*
	Missing Rock:	Yes No	o <u>/</u>	May require repair: Yes* No
Observed Damage:	Nori van			
Potential Corrective Actions:	NENCE		·	

mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Date: /タニ	122/12		
Inspector:	D-Par		
		Diversion Channel	
Observed Performance:	Erosion Protection in place:	Yes No	May require repair: Yes* No
	Normal Flow Channel in place:	Yes No	May require repair: Yes* No
	Encroaching on Site Fencing:	Yes No	May require repair: Yes* No
Observed Damage: 4	No Change		
Potential Corrective Actions:	None		
		Diversion Swales	
Observed Performance:	Erosion Protection in place:	YesNo	May require repair: Yes* No*
	Flow Channel Silting In:	Yes No _	May require repair: Yes* No*
	Head Cutting:	Yes No	May require repair: Yes* No
Observed Damage:	No problem.		
Potential Corrective	Norte		

^{*} Mark all areas of concern or requiring repairs on attached site map.